	Application No.	Applicant(s)		
Notice of Allowability	10/649,588	WAAGAARD, OLE HI	WAAGAARD, OLE HENRIK	
	Examiner	Art Unit		
	Patrick J. Connolly	2877	<u> </u>	
The MAILING DATE of this communication apperall claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI	(OR REMAINS) CLOSED in this or other appropriate communica IGHTS. This application is subje	s application. If not included ation will be mailed in due co	l ourse. THIS	
1. X This communication is responsive to 24 January 2005.				
2. ⊠ The allowed claim(s) is/are <u>1-19</u> .				
 3. Acknowledgment is made of a claim for foreign priority ur a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents 	e been received. e been received in Application No	o	on from the	
International Bureau (PCT Rule 17.2(a)).				
* Certified copies not received:				
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	MENT of this application.			
 A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give 	es reason(s) why the oath or dec	claration is deficient.	TICE OF	
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.			
(a) I including changes required by the Notice of Draftspers	son's Patent Drawing Review (F	PTO-948) attached		
1) 🗌 hereto or 2) 🔲 to Paper No./Mail Date				
(b) including changes required by the attached Examiner's Paper No./Mail Date				
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t	i.84(c)) should be written on the d the header according to 37 CFR 1.	rawings in the front (not the b 121(d).	ack) of	
 DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT 	sit of BIOLOGICAL MATERI. FOR THE DEPOSIT OF BIOLO	AL must be submitted. No GICAL MATERIAL.	ote the	
 Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 01.24.2005 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material 	6. Interview Sumr Paper No./Mai 08), 7. Examiner's Am	il Date .		
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Art Unit: 2877

Specification

The disclosure is objected to because of the following informalities:

Paragraphs 0001, 0021 and 0023 contain blanks referencing a copending U.S. Application.

The examiner believes that these blanks should reference U.S. Application No. 10/650,117 filed August 27, 2003.

Appropriate correction is required.

Allowable Subject Matter

Claims 1-19 allowed.

The following is an examiner's statement of reasons for allowance:

As to claims 1 and 12, the prior art of record, taken alone or in combination, fails to disclose or render obvious a method or apparatus for detecting sensor phase in a sensor array including: transmitting an interrogation signal into a sensor array of sensor elements and a plurality of spaced apart inline reflector sensors, wherein each sensor element comprising the optical transmission path between two inline reflectors; receiving a reflected signal from the sensor array; and applying an inverse scattering algorithm to the reflected signal to reduce crosstalk interference, in combination with the rest of the limitations of claims 1 and 12.

As to claim 19, the prior art of record, taken alone or in combination, fails to disclose or render obvious a computer readable medium comprising software that, when executed by a processor, causes the processor to process signals reflected from a sensor array using a method including: (a) determining Jones matrices for a sensor within the sensor array; (b) computing a sensor phase for the sensor; (c) computing a transfer matrix; (d) determining the forward and

Application/Control Number: 10/649,588 Page 3

Art Unit: 2877

backward propagating optical fields from the sensor; and (e) repeating steps (a), (b), (c) and (d) for each other sensor in the sensor array, in combination with the rest of the limitations of claim 19.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Application/Control Number: 10/649,588

Art Unit: 2877

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Patrick J. Connolly whose telephone number is 571.272.2412. The examiner can normally be reached on 9:00 am - 7:00 pm Monday-Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gregory J. Toatley, Jr. can be reached on 571.272.2800 ext. 77. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Page 4